

We claim:

Sub A/P

1. A two-piece golf ball comprising
 - a core having a compression in the range of about 75 PGA to about 89 PGA;
 - a cover having a Shore D hardness in the range of about 42 Shore D to about 60 Shore D;
 - and
 - an outer surface divided into a plurality of polygonal configurations, which include triangles;
 - and
 - a plurality of dimples arranged on the outer surface, with a first pattern of dimples associated with each triangle, a second pattern of dimples associated with each triangle.
2. The ball of claim 1 wherein the core has a diameter in the range of about 1.535 inches to about 1.545 inches.
3. The golf ball of claim 1 wherein the core has a weight in the range of about 36.25 grams to about 37.25 grams.
4. The ball of claim 1 wherein the cover further comprises:
 - a blend of polymers wherein said blend comprises:
 - a terpolymer of ethylene/methacrylic acid/n-butyl acrylate; and,
 - a copolymer of ethylene/methacrylic acid wherein said blend has a hardness of 53 to 59 Shore D.
5. The golf ball of claim 4 wherein said terpolymer has a melt index of about 0.5 to 3 g/10 minutes.
6. The golf ball of claim 4 wherein said copolymer has a melt index of about 2 to 6 g/10 minutes.
7. The golf ball of claim 1 wherein the cover has a thickness of about 0.070 inches.

8. The golf ball of claim 1 wherein said outer surface is divided into a polyhedron defined as a icosahedron.

9. The golf ball of claim 8 further comprising twenty triangles for further dividing said outer surface, said triangles consist of a plurality of polar triangles and a plurality of equatorial triangles wherein said polar triangles are divided into seven rows, and said equatorial triangles are divided into eight rows to obtain an outer surface consisting of subdivided triangles.

10. The golf ball of claim 1 further comprising a first set of dimples, with each dimple in said first set having a first size; a second set of dimples, with each dimple in said second set having a second size, wherein said plurality of dimples are selected from said first set of dimples, and said second set of dimples.

11. The golf ball of claim 9 wherein sides of said polar triangles bisect dimples only from said first set of dimples and wherein said vertices of said polar triangles intersect said midpoint of dimples only from said first set of dimples.

12. The golf ball of claim 8 wherein said sides of said equatorial triangles bisect dimples only from said second set of dimples and wherein said vertices of said equatorial triangle are selected from said first set of dimples.

13. The golf ball of claim 9 wherein sides of each polar triangle are intersected by at least one dimple from said first set of dimples.

14. The golf ball of claim 9 wherein the common sides of each equatorial triangle are intersected by a dimple from said second set of dimples.

15. The golf ball of claim 1 further comprising:

two poles,

an uninterrupted equatorial great circle path that is free of dimples and that defines a mold line symmetrically positioned with respect to said two poles on said outer surface; and

a pair of first polygonal configurations each being located on opposite sides of said outer surface with respect to mold parting line to include one of said two poles symmetrically arranged within its boundaries.

16. The golf ball of claim 13 wherein said uninterrupted equatorial great circle path is not intersected by any dimples.

17. The golf ball of claim 1 wherein said dimples are essentially circular with each one of said dimples having a size defined by a diameter in the range of about 0.13 inches to about 0.15 inches, and a depth in the range of about 0.0025 inches to about 0.125 inches.

18. The golf ball of claim 1 wherein the total number of dimples is at least 392.

19. The golf ball of claim 4 wherein said terpolymer is 30% to 80% by weight of said blend and said copolymer is 20% to 40% of said blend.

Sub A2 20. A two-piece golf ball comprising
a core having a compression in the range of about 75 PGA to about 89 PGA;
a cover having a Shore D hardness in the range of about 42 Shore D to about 60 Shore D;
and
an outer surface divided into a plurality of polygonal configurations, which include triangles;
and
at least 392 dimples arranged on the outer surface, with a first pattern of dimples associated with each triangle, a second pattern of dimples associated with each triangle wherein said dimples are essentially circular with each one of said dimples having a size defined by a diameter in the range of

about 0.13 inches to about 0.15 inches, and a depth in the range of about 0.0025 inches to about 0.125 inches.

21. The golf ball of claim 20 wherein the cover further comprises:

a blend of polymers wherein said blend comprises:

a terpolymer of ethylene/methacrylic acid/n-butyl acrylate; and,

a copolymer of ethylene/methacrylic acid wherein said blend has a hardness of 53 to 59 Shore D.

22. The golf ball of claim 21 wherein said terpolymer is 30% to 80% by weight of said blend and said copolymer is 20% to 40% of said blend.

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